What Is Claimed Is:

1. A vibration absorber for attaching to a rotatable driveshaft comprising an annular-cylindrical mass member (3) arranged at a radial distance from the driveshaft; a plurality of circumferentially spaced elastic supporting elements (4) shaped to be positioned on the driveshaft, which are firmly connected to the mass member (3) and which, relative thereto, extend radially inwardly; and an elastic fixing sleeve (5) shaped to be positioned on the driveshaft and which, at its one end, is connected to the mass member (3).

2. A vibration absorber according to claim 1, wherein the fixing sleeve (5), starting from its end connected to the mass member (3), comprises a circumferentially closed, radially tapered sleeve portion (7).

3. A vibration absorber according to claim 2, wherein the fixing sleeve (5), at its end opposing the mass member (3), comprises a cylindrical collar portion (8) with a seat face (9).

4. A vibration absorber according to claim 1, wherein the supporting elements (4), on their radial outside, are connected to one another to form an annular elastic member (6) with one another.

5. A vibration absorber according to claim 1, wherein the supporting elements (4) and the fixing sleeve (5) are integrally connected to one another in an annular elastic member (6).

6. A vibration absorber according to claim 5, wherein the mass member (3), in the form of an insert, is integrally formed in the annular elastic member (6) with the supporting elements (4) and the fixing sleeve (5).

7. A vibration absorber according to claim 1, wherein the cylindrical mass member (3) is metal.

8. A vibration absorber according to claim 7, wherein the cylindrical mass member is formed out of plate metal so as to be round.

9. A vibration absorber according to claim 3, wherein the sleeve portion (7) of the fixing sleeve (5) is shaped to be conical from the mass member (3) to the collar portion (8).

10. A vibration absorber according to claim 9, wherein the wall thickness in the sleeve portion (7) decreases from the mass member (3) to the collar portion (8).

11. A vibration absorber according to claim 9, wherein the wall thickness in the sleeve portion (7) is constant from the mass member (3) to the collar portion (8).

12. A vibration absorber according to claim 9, wherein the wall thickness of the sleeve portion (7) increases from the mass member (3) to the collar portion (8).

13. A vibration absorber according to claim 3, wherein the collar portion (8) of the fixing sleeve (5) comprises a continuous annular groove (11) for receiving a clamp band (12).

14. A vibration absorber according to claim 1, wherein the supporting elements (4), in the axial direction, extend along only a portion of the length of the mass member (3).

15. A vibration absorber according to claim 14, wherein the supporting elements (4) are connected to the mass member (3) axially opposite the fixing sleeve (5).

16. A vibration absorber according to claim 14, wherein the supporting elements (4) are arranged at an axial distance from an end of the mass member (3) opposite the fixing sleeve (5).

17. A vibration absorber according to claim 15, wherein the supporting elements (4) are arranged at least partially axially outside the length of the mass member (3) and adjoining an end of the mass member (3).

18. A vibration absorber according to claim 1, wherein each of the supporting elements (4) comprise substantially identical cross-sectional shapes.

19. A vibration absorber according to claim 1, wherein the supporting elements (4) are arranged so as to be uniformly circumferentially distributed at equal distances from one another.

20. A vibration absorber according to claim 1, wherein the elastic material of the supporting elements (4) and of the fixing sleeve (5) is rubber.

21. A vibration absorber according to claim 1, wherein the sleeve portion (7) includes openings formed therein.